

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 265280-68188	SERIAL No. 10/058,508
		APPLICANT King, et al.	
INFORMATION DISCLOSURE STATEMENT		FILING DATE January 28, 2002	GROUP Unknown

		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AR	AA	3,297,641	1/1967	Werber et al.			1/1964
AR	AB	3,352,818	11/1967	Meyer et al.			1/1965
AR	AC	3,646,155	2/29/1972	Scott, H.G.	260	827	12/18/69
AR	AD	3,671,477	6/1972	Nesbitt	524	424	12/16/70
AR	AE	3,758,273	9/1973	Johnston et al.			4/1971
AR	AF	3,944,536	3/1976	Lupton et al.			6/1973
AR	AG	4,138,382	2/06/1979	Polmanteer	523	113	5/1978
AR	AH	4,390,666	6/1983	Moriguchi	525	194	7/30/1982
AR	AI	4,483,333	11/20/1984	Wartman	128	90	6/1/1982
AR	AJ	4,518,552	5/21/1985	Matsuo et al.	264, 524	126,104, 122,236, 323, 587	11/9/1983
AR	AK	4,539,374	9/3/1985	Fenton et al.	525	240	3/21/1984

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
AR	AL	WO 95/21212	8/10/1995	PCT			X
AR	AM	WO 96/09330	3/28/1996	PCT			X
AR	AN	JP-A-62 243 634	1/24/1987	Japan (Abstract in English)			
AR	AO	JP-A-59 168 050	9/21/1984	Japan (Abstract in English - 2 pages)			
AR	AP	JP-A-04 185651	7/2/1992	Japan (Abstract in English)			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	AR	"Poly Two Carbon-Polyethylene Composite-A Carbon Fiber Reinforced Molded Ultra-High Molecular Weight Polyethylene", Technical Report, Zimmer (a Bristol-Myers Squibb Company), Warsaw (1977)
AR	AS	Atkinson, J.R. et al., "Silane cross-linked polyethylene for prosthetic applications. Part I. Certain physical and mechanical properties related to the nature of the material", Biomaterials, 4:267 (1983)
AR	AT	Atkinson, J.R. et al., "Silane cross-linked polyethylene for prosthetic applications. Part II. Creep and wear behavior and a preliminary moulding test", Biomaterials, 5:326 (1984)
AR	AU	Bartel, D.L. et al., "The Effect of Conformity, Thickness, and Material on Stresses In Ultra-High Molecular Weight Components for Total Hip Replacement", J. Bone & Joint Surgery, 68-A(7):1041 (1986)
AR	AV	Bhateja, S.K., "Radiation-Induced Crystallinity Changes In Pressure-Crystallized Ultra-High Molecular Weight Polyethylene", J. Macromol. Sci. Phys., B22(1): 159 (1983)
AR	AW	Bhateja, S.K. et al., "Radiation-Induced Crystallinity Changes in Linear Polyethylene", J. Polym. Sci. Polym. Phys. Ed., 21: 523 (1983)
AR	AX	Bhateja, S.K. et al., "Radiation-Induced Crystallinity Changes in Polyethylene Blends", J. Mater. Sci., 20: 2839 (1985)
AR	AY	Birkinshaw, C. et al., "The Melting Behavior of Irradiated Polymers", Thermochimica Acta, 117: 365 (1987)
AR	AZ	Bloebaum, R.D. et al., "Investigation of Early Surface Delamination Observed in Retrieved Heat-Pressed Tibial Inserts", Clin. Orthop., 269: 120 (1991)

Examiner <i>Anuradha Ramana</i>	Date Considered <i>2/26/03</i>
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ARL	BA	4,582,656	04/15/1986	Hoffmann			
	BB	4,655,769	4/1987	Zachariades			12/1985
	BC	4,668,527	5/26/1987	Fujita et al.	427	35	9/1985
	BD	4,743,493	5/10/1998	Sioshansi et al.			10/6/1986
	BE	4,747,990	5/1988	Gaussens et al.			3/1986
	BF	4,816,517	3/1989	Wilkus	524	520	5/23/1985
	BG	4,876,049	10/24/1989	Aoyama et al.			11/19/86
	BH	4,888,369	12/19/1989	Moore, Jr.	524, 522 523, 252	100, 102, 120, 75, 76, 77 105, 401, 403	4/24/1987
	BI	4,902,460	2/1990	Yagi	264	83	
	BJ	4,944,974	7/1990	Zachariades			10/1988
ARL	BK	5,024,670	6/1991	Smith et al.			10/1989

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		Document Number	Date	Country	Class	Subclass	Translation No
ARL	BL	BE-A-1001574	12/5/1989	Belgium			X
	BM	WO 93/10953	11/27/1991	E.I. DuPont			
	BN	EP 0722,973A1	07/24/1996	EPO			
	BO	EP 0729,981A1	09/04/1996	EPO			
ARL	BP	WO 97/29793	08/21/1997	PCT			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

ARL	BR	Bremmer, T. et al., "Peroxide Modification of Linear Low-Density Polyethylene: A Comparison of Dialkyl Peroxides", J. Appl. Polym. Sci., 49 : 785 (1993)
	BS	Brown, K. J. et al., "The Wear of Ultra-High Molecular Weight Polyethylene with Reference to Its Use in Prostheses", Plastics in Medicine & Surgery Plastics & Rubber Institute, London, 2.1 (1975)
	BT	Chen, C.J. et al., "Radiation-Induced crosslinking: II. Effect on the crystalline and amorphous densities of polyethylene", Coll. & Polym. Sci., 269: 469 (1991)
	BU	Chen, Y.L. et al., "Photocrosslinking of Polyethylene I. Photoinitiators, Crosslinking Agent, and Reaction Kinetics", J. Polym. Sci., Part A: Polym. Chem. 27: 4051 (1989)
	BV	Chen, Y.L. et al., "Photocrosslinking of Polyethylene. II. Properties of Photocrosslinked Polyethylene", J. Polym. Sci., Part A; Polym. Chem., 27: 4077 (1989)
	BW	Connelly, G.M. et al., "Fatigue Crack Propagation Behavior of Ultrahigh Molecular Weight Polyethylene", J. Orthop. Res., 2: 119 (1984)
	BX	deBoer, A.P. et al., "Polyethylene Networks Crosslinked in Solution: Preparation, Elastic Behavior, and Oriented Crystallization. I. Crosslinking In Solution", J. Polym. Sci., Polym. Phys. Ed., 14: 187 (1976)
	BY	deBoer, J. et al., "Crosslinking of Ultra-High Molecular Weight Polyethylene in the Melt by Means of 2,5-dimethyl-2,5-bis (tert-butyldioxy)-3-hexyne", Makromol. Chem. Rapid Commun., 2: 749 (1981)
ARL	BZ	deBoer, J. et al., "Crosslinking of Ultra-High Molecular Weight Polyethylene in the Melt by Means of 2,5-dimethyl-2,5-bis (tert-butyldioxy)-3-hexyne: 2. Crystallization Behavior and Mechanical Properties", Polymer, 23: 1944 (1982)

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		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AR	CA	5,037,928	8/1991	Li et al.			3/1990
	CB	5,130,376	7/1992	Shih	525	240	
	CC	5,133,757	7/28/1992	Sioshansi et al.	623	18	7/31/1990
	CD	5,160,464	11/1992	Ward et al.			3/1988
	CE	5,160,472	11/1992	Zachariades			2/1990
	CF	5,180,394	1/19/1993	Davidson	623	18	11/91
	CG	5,192,323	3/09/1993	Shetty et al.	623	16	3/1993
	CH	5,210,130	5/11/1993	Howard, Jr.			
	CI	5,236,563	8/17/1993	Loh	204,606, 424	165,230, 231,426	6/18/1990
	CJ	5,356,998	10/18/1994	Hobes			8/9/1993
AR	CK	5,407,623	4/1995	Zachariades et al.			1/1994

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
AR	CL	0 169 259	7/25/1984	EPO-Abstract			X
	CM	09 12 22 22	5/5/1997	Japan - Abstract			X
	CN	0 373 800 A1	6/1990	EPO			
	CO	58-157830A	9/1983	Japan			X
AR	CP	0 737481A1	10/1996	EPO			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	CR	deBoer, J. et al., "Crosslinking of Ultra-High Molecular Weight Polyethylene in the Oriented State with Dicumylperoxide", Polymer, 25: 513 (1984)
	CS	Dijkstra, D.J. et al., "Cross-linking of ultra-high molecular weight polyethylene in the melt by means of electron beam irradiation", Polymer, 30: 866 (1989)
	CT	Ding Z.Y. et al., "Model Filled Polymers. VI. Determination of the Crosslink Density of Polymeric Beads by Swelling," J. Polym. Sci., Part B: Poly. Phys., 29: 1035 (1991)
	CU	Eyerer, P. et al., "Property changes of UHMW polyethylene hip cup endoprostheses during implantation", J. Biomed. Materials Res., 18: 1137 (1984)
	CV	Eyerer, P., "Polyethylene", Concise Encyclopedia of Medical and Dental Implant Materials, Pergamon Press, Oxford, 271 (1990)
	CW	Ferris, B.D., "A quantitative study of the tissue reaction and its relationship to debris production from a joint implant", J. Exp. Path., 71: 367 (1990)
	CX	Gielenz G. et al., "Crystalline and supermolecular structures in linear polyethylene irradiated with fast electrons", Colloid & Polymer Sci., 260: 742 (1982)
	CY	Grobbelaar, C.J. et al., "The Radiation improvement of Polyethylene Prosthesis", J. Bone & Joint Surgery, 60-B(3): 370-374 (1978)
AR	CZ	Goodman, S. et al., "Polyethylene wear in knee arthroplasty", Acta Orthop. Scand., 63(3): 358 (1992)

Examiner	<i>Amradha Lemana</i>	Date Considered	<i>2/26/03</i>
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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

PAT. DOCKET NO.
265280-68188

SERIAL No.
10/058,508

APPLICANT

King, et al.

FILING DATE

January 28, 2002

GROUP

Unknown

		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AK	DA	5,414,049	5/9/1995	Sun et al.	525	333.7	6/1/1993
	DB	5,449,745	9/12/1995	Sun et al.	528	483	10/7/1994
	DC	5,466,530	11/1995	England et al.			1/1993
	DD	5,478,906	12/1995	Howard, Jr.			5/1994
	DE	5,480,683	1/1996	Chabrol et al.			12/1993
	DF	5,508,319	4/1996	DeNicola	526	352	
	DG	5,515,590	5/1996	Pienkowski			7/1994
	DH	5,543,471	8/6/1996	Sun et al.			
	DI	5,549,698	8/1996	Averill et al.			10/1994
	DJ	5,549,700	8/1996	Graham et al.			12/1994
AK	DK	5,577,368	11/26/1996	Hamilton et al.			4/3/1995

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
AK	DL	04-198242	7/1992	Japan			X
	DM	WO 98/14223	4/9/1998	PCT			
	DN	WO 98/01085	1/15/1998	PCT			
	DO	EP 0 963 824 A2	12/15/1999	EPO			
AK	DP	EP 0 963 824 A3	09/12/2001	EPO			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	DR	Grood, E.S. et al., "Analysis of retrieved implants: Crystallinity changes in ultrahigh molecular weight polyethylene", J. Biomedical Materials Res., 16: 399 (1982)
	DS	Huang, D.D. et al., "Cyclic Fatigue Behaviors of UHMWPE and Enhanced UHMWPE", Trans. 38 th Ann. Mtg., Orthop. Res. Soc., 403 (1992)
	DT	Kamel, I. et al., "A Model for Radiation-Induced Changes in Ultrahigh-Molecular-Weight-Polyethylene", J. Polym. Sci., Polym. Phys. Ed., 23:2407 (1985)
	DU	Kampouris, E.M. et al., "Benzyl Peroxide as a Crosslinking Agent for Polyethylene", J. Appl. Polym. Sci., 34: 1209 (1987)
	DV	Kao, Y.H., "Crystallinity in chemically crosslinked low density polyethylenes: I Structural and fusion studies", Polymer, 27: 1669 (1986)
	DW	Katq, K. et al., "Structural Changes and Melting Behavior of γ -Irradiated Polyethylene", Japanese J. Appl. Phys., 20: 691 (1981)
	DX	Kunert, K.A. et al., "Structural investigation of chemically crosslinked low density polyethylene", Polymer, 22: 1355 (1981)
	DY	Kurth, M. et al., "Effects of Radiation Sterilization on UHMW-Polyethylene", Trans. Third World Biomaterials Congress, 589 (1988)
AK	DZ	Landy, M.M. et al., "Wear of Ultra-high-molecular-weight Polyethylene Components of 90 Retrieved Knee Prostheses", J. Arthroplasty, Supplement, 3: S73 (1988)

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		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AL	EA	5,593,719	01/14/1997	Deamaley et al.	427	2.26	3/1994
	EB	5,609,638	03/11/1997	Price et al.	623	18	11/94
	EC	5,645,882	07/08/1997	Llanos	427	2.24	11/95
	ED	5,650,485	07/22/1997	Sun et al.			
	EE	5,674,293	10/7/1997	Armini et al.	623	16	1/1996
	EF	5,702,448	12/30/1997	Buechel et al.	623	16	7/1995
	EG	5,702,456	12/30/1997	Pienkowski	623	18	3/1996
	EH	5,728,748	03/17/1998	Sun et al.			
	EI	5,876,453	03/02/1999	Beaty	623	16	2/1996
✓	EJ	5,879,388	03/09/1999	Pienkowski et al.	623	18	11/97
AL	EK	5,879,400	03/09/1999	Merrill et al.	623	22	2/1996

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	EL						
	EM						
	EN						
	EO						
	EP						

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AL	ER	Lem, K. et al., "Rheological Properties of Polyethylenes Modified with Dicumyl Peroxide", J. Appl. Polym. Sci., 27: 1367 (1982)
	ES	Li, S. et al., "Characterization and Description of an Enhanced Ultra High Molecular Weight Polyethylene for Orthopaedic Bearing Surfaces", Trans. 16 th Ann. Soc. Biomaterials Meeting, Charleston, SC, 190 (1990)
	ET	Manley, T.R. et al., "The effects of varying peroxide concentration in crosslinked linear polyethylene", Polymer, 12:176 (1971)
	EU	McKellop, H. et al., "Friction, Lubrication and Wear of Polyethylene Metal and Polyethylene/Ceramic Hip Prostheses on a Joint Simulator", Fourth World Biomaterials Congress, Berlin, April., 118 (1992)
	EV	Minkova, L., "DSC of γ -irradiated ultra-high molecular weight polyethylene and high density polyethylene of normal molecular weight", Colloid & Polymer Sci., 266: 6 (1988)
	EW	Minkova, L. et al., "Blends of normal high density and ultra-high molecular weight polyethylene, γ -irradiated at a low dose", Colloid & Polymer Sci., 268: 1018 (1990)
	EX	Nagy, E.V. et al., "A Fourier transform infrared technique for the evaluation of polyethylene orthopaedic bearing materials", Trans. 16 th Ann. Soc. For Biomaterials Meeting, Charleston, SC 109 (1990)
	EY	Narkis, M. et al., "Structure and Tensile Behavior of Irradiation-and Peroxide-Crosslinked Polyethylene", J. Macromol. Sci.-Phys., B26(1): 37 (1987)
AL	EZ	Nusbaum, H. J. et al., "The Effects of Radiation Sterilization on the Properties of Ultrahigh Molecular Weight Polyethylene", J. Biomed. Materials Res., 13: 557 (1979)

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Annamadha Ramana

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AK	FA	5,879,407	03/09/1999	Waggener	623	22	7/97
	FB	6,017,975	01/25/2000	Saum et al.			8/15/1997
	FC	6,143,232	11/7/2000	Rohr			7/29/1999
	FD	6,168,626	01/02/2001	Hyon et al.			
	FE	2,948,666	11/21/1956	E. J. Lawton			
	FF	4,055,862	11/01/1977	Farling			
	FG	4,281,420	11/04/1981	Raab			
	FH	4,366,618	01/04/1983	Lakes			
	FI	4,586,995	05/06/1986	Randall et al.			
✓	FJ	5,014,494	05/14/1991	George			
AK	FK	5,137,688	08/11/1992	DeRudder			

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	FL						
	FM						
	FN						
	FO						
	FP						

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AK	FR	Oonishi, H. et al., "Improvement of Polyethylene by Irradiation in Artificial Joints", Radiat. Phys. Chem., 39: 495 (1992)
	FS	Oonishi, H. et al., "In Vivo and In Vitro Wear Behavior on Weightbearing Surfaces of Polyethylene Sockets Improved by Irradiation in Total Hip Prostheses", Surface Modification Technologies V, 101-115 (1992), Sudarsahn T.S. et al., ed. The Institute of Materials
	FT	Painter, P.C., et al., "The Theory of Vibrational Spectroscopy and its Application to Polymeric Materials", Ed. John Wiley & Sons, New York, U.S.A., (1982)
	FU	Paul, J. P., "Forces Transmitted by Joints in the Human Body", Proc. Instn. Mech. Engrs. 181, Part 3J, Paper 8 (1966)
	FV	Qu, B.J. et al., "Photocross-linking of Low Density Polyethylene. I Kinetics and Reaction Parameters", J. Appl. Polym. Sci., 48: 701 (1993)
	FW	Qu, B.J. et al., "Photocross-linking of Low Density Polyethylene. II Structure and Morphology", J. Appl. Polym. Sci., 48: 711 (1993)
	FX	Rimnac, C.M. et al., "Chemical and Mechanical Degradation of UHMWPE: Report of the Development of an In vitro Test", J. Appl. Biomaterials, 5:17 (1994)
	FY	Rimnac, C.M. et al., "Observations of Surface Damage and Degradation on Retrieved PCA Knee Implants", Trans. 38 th Ann. Orthopaedic Res. Society, Washington, D.C., 330 (1992)
AK	FZ	Rimnac, C.M. et al., "Post-Irradiation Aging of Ultra-High Molecular Weight Polyethylene", J. Bone & Joint Surgery, 76-A(7): 1052 (1994)

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ARC	GA	5,153,039	10/06/1982	Porter et al.			
	GB	5,200,439	04/06/1993	Asanuma			
	GC	5,439,949	08/08/1995	Lucas et al.			
	GD	5,709,020	01/20/1998	Pienkowski et al.			
	GE	5,753,182	05/19/1998	Higgins			
	GF	6,228,900	05/08/2001	Shen et al.			
	GG	6,087,553	07/11/2001	Cohen et al.			
	GH	5,645,594	07/08/1997	Devanathan et al.			
	GI	6,245,276	06/12/2001	McNulty et al.			
	GJ	5,607,518	03/04/1997	Hoffman et al.			
ARC	GK	6,316,158	11/13/2001	Saum et al.			

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	GL						
	GM						
	GN						
	GO						
	GP						

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ARC	GR	Roe, R. et al., "Effect of radiation sterilization and aging on ultrahigh molecular weight polyethylene", J. Biomed. Mat. Res., 15: 209 (1981)
	GS	Rose, R.M. et al., "On the True Wear Rate of Ultra-High Molecular Weight Polyethylene in the Total Hip Prosthesis", J. Bone & Joint Surgery, 62A(4): 537(1980)
	GT	Rose, R.M. et al., "Exploratory Investigations in the Structure Dependence of the Wear Resistance of Polyethylene", Wear, 77:89 (1982)
	GU	Rostoker, W. et al., "The Appearances of Wear on Polyethylene—A Comparison of in vivo and in vitro Wear Surfaces", J. Biomed. Materials Res., 12:317 (1978)
	GV	Seedhom, B.B. et al., "Wear of Solid Phase Formed High Density Polyethylene in Relation to the Life of Artificial Hips and Knees", Wear, 24: 35 (1973)
	GW	Shen, C. et al., "The Friction and Wear Behavior of Irradiated Very High Molecular Weight Polyethylene", Wear, 30:349 (1974)
	GX	Shinde, A. et al., "Irradiation of Ultrahigh-Molecular-Weight Polyethylene", J. Polym. Sci., Polym. Phys. Ed., 23: 1681 (1985)
	GY	Spruiell, J.E. et al., "Methods of Experimental Physics", L. Marton & C. Marton, Eds., Vol 16, Part B Academic Press, New York (1980)
ARC	GZ	Streicher, R.M., "Ionizing irradiation for sterilization and modification of high molecular weight polyethylenes" Plastics & Rubber Processing & Applications, 10: 221 (1988)

Examiner <i>Anuradha Ramana</i>	Date Considered <i>2/26/03</i>
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	HA						
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	HL						
	HM						
	HN						
	HO						
	HP						

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AK	HR	Streicher, R.M., "Investigation on Sterilization and Modification of High Molecular Weight Polyethylenes by Ionizing Irradiation", Beta-gamma, 1/89:34-43
	HS	Swanson, S.A.V. et al., "Chapter 3, Friction, Lubrication and Wear", The Scientific Basis of Joint Replacement, Pittman Medical Publishing Co., Ltd. (1977)
	HT	Wang, X. et al., "Melting of Ultrahigh Molecular Weight Polyethylene", J. App. Polymer Sci., 34:593 (1987)
	HU	Wright, T.M. et al., "The effect of carbon fiber reinforcement on contact area, contact pressure, and time-dependent deformation in polyethylene tibial components", J. Biomed. Materials Res., 15:719 (1981)
	HV	Zachariades, A.E., "A New Class of UHMWPE Orthopaedic Prosthetic Devices with Enhanced Mechanical Properties", Trans. Fourth World Biomaterials Congress, Berlin 623 (1992)
	HW	Zhao, Y. et al., "Effect of Irradiation on Crystallinity and Mechanical Properties of Ultrahigh Molecular Weight Polyethylene", J. Appl. Polym. Sci., 50:1797 (1993)
	HX	"News You Can Use", Vol. II, No. 2 (May 1996)
	HY	"For the Tough Jobs: 1900 UHMW Polymer", Himont, Inc. (1988)
	HZ	"Abrasion-Resistant 1900 UHMW Polymer", Hercules, Inc. (1979)

Examiner	<i>Murad Khan</i>	Date Considered	<i>4/26/03</i>
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	APPLICANT King, et al.	
	FILING DATE January 28, 2002	GROUP Unknown

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	IL						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	IR	"Technical Information: 1900 Ultrahigh Molecular Weight Polymer, General Information and Applications", Bulletin JPE-101A, Hercules, U.S.A., Inc., (1989)
	IS	"Technical Information: 1900 Ultrahigh Molecular Weight Polymer, Nuclear Radiation Effects", Bulletin HPE-111, Himont U.S.A., Inc. (1985)
	IT	"Technical Information: 1900 Ultrahigh Molecular Weight Polymer, Effect of Polymer Modification", Bulletin HPE-116, Himont U.S.A., Inc. (1987)
	IU	"Ultra-High Molecular Weight Polyethylene as Biomaterial In Orthopaedic Surgery", Hogrefe & Huber Publishers
	IV	Appleby, R.W. et al., "Post-gamma irradiation cross-linking of polyethylene tape by acetylene treatment", J. Material Sci., 29: 227-231 (1994)
	IW	Higgins, J.C. et al., "Evaluation of Free Radical Reduction Treatments for UHMWPE", Proceedings of the 42 nd Annual Mtg., Orthopaedic Res. Soc., Feb. 19-22:485(1996)
	IX	Jasty, M. et al., "Marked Improvement in the Wear Resistance of a New Form of UHMPWE in a Physiologic Hip Simulator", Trans. 43 rd Ann. Mtg., Orthopaedic Research Soc., San Francisco, CA, Feb. 9-13:785(1997)
	IY	Jasty, M. et al., "Marked Improvement in the Wear Resistance of a New Form of UHMPWE in a Physiologic Hip Simulator", Trans. Soc. Biomaterials, Vol. XX, p 71, 23 rd Ann. Mtg. Soc. for Biomaterials. New Orleans, Louisiana, U.S.A., Apr. 30-May 4:157 (1997)
AR	IZ	Streicher, "Influence of Ionizing Irradiation in Air and Nitrogen for Sterilization of Surgical Grade Polyethylene for Implants, Radiat. Phys. Chem., Vol. 31, Nos. 4-6: 693-698 (1988)

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265280-68188

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	JL						
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AK	JR	Pleiss et al., "The Improvement of Polyethylene Prostheses Through Radiation Crosslinking", Radiat. Phys. Chem., 9: 647-652 (1977)
	JS	Streicher, "The Behavior of UHMW-PE when Subjected to Sterilization by Ionizing Radiation", Ultra-High Molecular Weight Polyethylene as Biomaterial in Orthopedic Surgery, 66-73 (1990)
	JT	Saunders, C. et al., "Radiation Effects on Microorganisms and Polymers for Medical Products", Medical Device & Diagnostic Industry, 222:89-22 (1993)
	JU	Kang et al., "The Radiation Chemistry of Polyethylene IX. Temperature Coefficient of Cross-linking and Other Effects", J. Amer. Chem. Society, 89(9): 1980-1986 (1967)
	JV	Rose et al., "Radiation Sterilization and the Wear Rate of Polyethylene", J. Orthopaedic Res. Society, 2(4): 393-400 (1984)
	JW	Oonishi, H. et al., "Super Low Wear Cross-Linked UHMWPE by Heavy High-Dose Gamma Radiation", WPOA 2 nd Congress of Hip Section, 61 (1996)
	JX	Jahan et al., "Combined chemical and mechanical effects on free radicals in UHMWPE joints during implantation", J. Biomed. Material Res., 25: 1005-1016 (1991)
	JY	"Standard Practice for Dosimetry in an Electron Beam Facility for Radiation Processing at Energies Between 300 keV and 25 keV", Am. Soc. for Testing & Materials, Designation: E1649-94, 870-888 (1995)
AK	JZ	Oonishi, H. et al., "The Low Wear of Cross-Linked Polyethylene Socket in Total Hip Prostheses", Encyclopedic Handbook of Biomaterials & Bioengineering, Vol 2, Marcel Dekker, Inc., 1853-1868 (1995).

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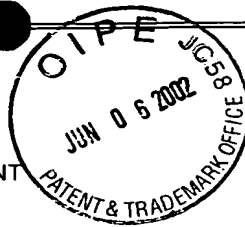
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	KR	Atkinson, J. et al., "The nature of silane cross-linked HDPE is discussed. Creep and wear tests indicate its potential as a possible replacement for high molecular weight polyethylene in prostheses", Polymers in Medicine and Surgery, Conf. Held by Plastics and Rubber Institute and Biological Engineering Soc., UK. Sep, P4/1-P4/9 (1986)
	KS	Jones, W. et al., "Effect of γ Irradiation on the Friction and Wear of Ultrahigh Molecular Weight Polyethylene, Wear 70: 77-92 (1981)
	KT	Gent, A. et al., "Elastic Behavior, Birefringence, and Swelling of Amorphous Polyethylene Networks", J. Polymer Sci. 5: 47-60 (1967)
	KU	Zoepfl, F. et al., "Differential Scanning Calorimetry Studies of Irradiated Polyethylene: I. Melting Temperatures and Fusion Endotherms", J. Polymer Sci. Polym. Chem. Ed., 22: 2017-2032 (1984)
	KV	Zoepfl, F. et al., "Differential Scanning Calorimetry Studies of Irradiated Polyethylene: II. The Effect of Oxygen", J. Polymer Sci. Polym. Chem. Ed., 22: 2032-2045 (1984)
	KW	Mandelkern, L. et al., "Fusion of Polymer Networks Formed from Linear Polyethylene: Effect of Intermolecular Order", contribution from the General Electric Research Laboratory and from the Polymer Structure Section, National Bureau of Standards 82: 46-53 (1960)
	KX	Muratoglu, O.K. et al., "A Comparison of 5 Different Types of Highly Crosslinked UHMWPEs: Physical Properties and Wear Behavior", 45 th Annual Meeting, Orthopaedic Research Society, Anaheim, CA, February 1-4, 77 (1999)
	KY	Muratoglu, O.K. et al., "A Novel Method of Crosslinking UHMWPE to Improve Wear With Little or No Sacrifice on Mechanical Properties", 45 th Annual Meeting, Orthopaedic Research Society, Anaheim, CA, February 1-4, 829 (1999)
AK	KZ	Muratoglu, O.K. et al., "Electron Beam Cross Linking of UHMWPE At Room Remperature, A Candidate Bearing Material for Total Joint Arthroplasty", 23rd Annual Meeting of the Society for Biomaterials, New Orleans, Louisiana, April 30-May 4, 74 (1997)

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Anuradha Karmana

Date Considered

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LL						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	LR	Matsubara, K et al., "The Wear Properties of High-Density Polyethylene Irradiated by Gamma Rays", Wear 10: 214 (1967)
	LS	McKellop, H. et al., "Increased Wear of UHMW Polyethylene After Gamma Radiation Sterilization", Trans. 26 th Ann. ORS, Atlanta, Georgia, February 5-7 (1980)
	LT	McKellop, H., "The Effect of Radiation and Ethylene Oxide Sterilization on the Wear of UHMW Polyethylene", 7 th European Conference on Biomaterials, Sept. 8-11, (1987)
	LU	Shen, F-S. et al., "Irradiation of Chemically Crosslinked Ultrahigh Molecular Weight Polyethylene", J. Polymer Sci.: Part B: Polymer Phys. 34: 1063-1077 (1996)
	LV	Oka, M. et al., "Wear-Resistant Properties of Newly Improved UHMWPE", Trans. Fifth World Biomaterials Congress, Toronto, Canada 520, (May 29-June 2, 1996)
	LW	Bellare, A. et al., "Deformation, Morphology and Wear Behavior of Polyethylene", Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, Louisiana, 75 (Apr. 30-May 4, 1997)
	LX	Clarke, I.C. et al., "Simulator Wear Study of High-Dose Gamma-Irradiated UHMWPE Cups", Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, LA, 71, (Apr. 30-May 4, 1997)
↓	LY	Taylor, G. et al., "Stability of N ₂ Packaged Gamma Irradiated UHMWPE", Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, LA, 421, (Apr. 30-May 4, 1997)
AR	LZ	Taylor, G. et al., "Stability of N ₂ Packaged Gamma Irradiated UHMWPE", Trans. 43 rd Ann. Mtg., Orthopaedic Res. Soc., San Francisco, California, 776 (Feb. 9-13, 1997)

Examiner	<i>Amrutha Ramana</i>	Date Considered	<i>2/26/03</i>
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AR	MR	McKellop, H. et al., "The Effect of Sterilization Method, Calcium Stearate and Molecular Weight on Wear of UHMWPE Acetabular Cups", Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, LA, 43 (Apr. 30-May 4, 1997)
	MS	McKellop, H. et al., "Effect of Sterilization Method on the Wear Rate of UHMW Polyethylene Acetabular Cups in a Hip Simulator", Trans. 43 rd Ann. Mtg., Orthopaedic Res. Soc. San Francisco, CA, 7, 94-16 Feb. 9-13 (1997)
	MT	McKellop, H. et al., "Wear of UHMWPE Acetabular Cups After Gamma Sterilization in Nitrogen, Thermal Stabilization and Artificial Aging", Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, LA, Apr. 30-May 4, 45 (1997)
	MU	Wang, A. et al., "Effect of Radiation Dosage on the Wear of Stabilized UHMWPE Evaluated by Hip and Knee Joint Simulators", Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, LA, 394 (Apr. 30-May 4, 1997)
	MV	Wang, A. et al., "Wear Mechanisms and Wear Testing of Ultra-High Molecular Weight Polyethylene in Total Joint Replacements", Hand-Out for Polyethylene Wear in Orthopaedic Implants Workshop, Trans. 23 rd Ann. Mtg., Soc. Biomaterials, New Orleans, LA (Apr. 30-May 4, 1997)
	MW	Yu, Y.J. et al., "Oxidation of UHMWPE Acetabular Cups After Sterilization and Wear Testing in a Hip Joint Simulator", Trans. 43 rd Ann. Mtg., Orthopaedic Res. Soc. San Francisco, CA, 778 (Feb. 9-13, 1997)
	MX	Roe, R. et al., "Effect of Radiation Sterilization and Aging on Ultrahigh Molecular Weight Polyethylene", Journal of Biomedical Materials Research, 15:209-230 (1981)
✓	MY	Li, S. et al., "Chemical Degradation of Polyethylene in Hip and Knee Replacements", 38 th Ann. Mtg., Orthopaedic Research Society, Washington, D.C., 41, (Feb. 7-20, 1992)
AR	MZ	Kurtz, S.M. et al., "Post-Irradiation Aging and The Stresses in UHMWPE Components for Total Joint Replacement", 40 th Ann. Mtg., Orthopaedic Research Society, New Orleans, LA, 584, (Feb. 21-24, 1994)

Examiner

Amraddha Samana

Date Considered

2/26/03

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NL						
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AN	NR	Lancaster et al., "Friction and Wear", in Jenkins (ed): Polymer Science, 959, 1045, North Holland Publishing Company (1972)
	NS	McKellop, H. et al., "Accelerated Aging of Irradiated UHMW Polyethylene for Wear Evaluations", 42 nd Annual Meeting, Orthopaedic Research Society, Atlanta, Georgia, 483, (Feb. 19-22, 1996)
	NT	Blunn, G.W. et al., "The Effect of Oxidation on the Wear of Untreated and Stabilized UHMWPE", 42 nd Annual Meeting, Orthopaedic Research Society, Atlanta, Georgia, 482, (Feb. 19-22, 1996)
	NU	"Duration TM Stabilized UHMWPE: an UHMWPE with Superior Wear and Oxidation Resistance; Technical Development and Scientific Evaluation", (Cover sheet and reference page)
	NV	Sun, D.C. et al., "The Origin of the White Band Observed in Direct Compression Molded UHMWPE Inserts", 20 th Annual Meeting Society for Biomaterials, 121 (April 5-9, 1994)
	NW	Sun, D.C. et al., "On the Origins of a Subsurface Oxidation Maximum and its Relationship to the Performance of UHMWPE Implants", 21 st Annual Meeting, Society for Biochemicals, San Francisco, CA, 362: (March 18-22, 1995)
	NX	Premnath, V. et al., "Melt Irradiated UHMWPE for Total Hip Replacement: Synthesis & Properties", 43 rd Annual Meeting, Orthopedic Res. Soc., San Francisco, CA, 91-16, (February 9-13, 1997)
	NY	Muratoglu, O.K. et al., "The Effect of Temperature on Radiation Crosslinking of UHMWPE for Use in Total Hip Arthroplasty", 46 th Annual Meeting, Orthopaedic Res. Soc., Orlando, FL, 0547 (March 12-15, 2000)
AN	NZ	D.C. Sun, C. Stark, J.H. Dumbleton, "Development of an Accelerated Aging Method For Evaluation of Long-term Irradiation Effects on UHMPWE Implants", <i>Polymer Preprints</i> , Vol. 35, No. 2, Pages 969-970, (1994).

Examiner <i>Anuradha Ramana</i>	Date Considered 2/26/03
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AK	OR	A.F. Booth, "Industrial Sterilization Technologies: New and Old Trends Shape Manufacturer Choices", Medical Device & Diagnostic Industry, Pages 64-72, February (1995).
	OS	B. Hinsch, "Sterilization Methods for Implants Made of UHMWPE", in Ultra-High Molecular Weight Polyethylene as Biomaterials in Orthopedic Surgery, Toronto: Hogrefe & Huber Publishers, Pages 63-65, (1991).
	OT	"Irradiation Effects on Polymers", edited by D.W. Clegg and A.A. Collyer, Elsevier Applied Science, London, (1991).
	OU	"Radiation Effects on Polymers", edited by R. L. Clough and S. W. Shalaby, ACS Symposium Series 475, (1991).
	OV	P. Eyerer, M. Kurth, H. A. McKellop and T. Mittlemeier, "Characterization of UHMWPE hip cups run on joint stimulators", J. Biomedical Materials Research, Vol. 21, pages 275-291, (1987).
	OW	A. Wang, D.C. Sun, C. Stark, J.H. Dumbleton, Wear, pages 181-183:241-249 (1995).
	OX	A. Wang, C. Stark, J.H. Dumbleton, "Role of cyclic plastic deformation in the wear of UHMWPE acetabular cups", Journal of Biomedical Materials Research, Vol. 29, pages 619-626, (1995).
	OY	A. Edidin et al., "Enhancement of multiaxial mechanical behavior by slot drawing of UHMWPE: a candidate biomaterial for total knee arthroplasty," 46 th Annual Mtg., Orthopaedic. Res. Soc., March 12-15, Orlando, FL (2000).
AL	OZ	Watkins et al. "Fractionation of High Density Polyethylene in Propane by Isothermal Pressure Profiling and Isobaric Temperature Profiling" J. Supercritical Fluids, 4:24-31 (1994).

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